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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/047,101	01/17/2002	Daniel P. Carter	219.40000X00 5731		
23838 7	590 04/15/2004		EXAMINER		
KENYON & KENYON			DUONG, THO V		
1500 K STREET, N.W., SUITE 700 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
	,		3743		
			DATE MAILED: 04/15/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)			
		10/047,10)1	CARTER ET AL.			
Office Action Summary		Examiner		Art Unit			
		Tho v Duo	•	3743			
Period fo	The MAILING DATE of this communic or Reply	ation appears on the	cover sheet with the c	orrespondence address			
THE I - External after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply weeply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	CATION. '37 CFR 1.136(a). In no evenication. days, a reply within the statuatory period will apply and will, by statute, cause the appl	ent, however, may a reply be tim utory minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication O (35 U.S.C. § 133).	n		
Status							
1)[\inf	Responsive to communication(s) filed	on 13 February 200	04.				
-	This action is FINAL . 2b)⊠ This action is non-final.						
·	·						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠ 5)□ 6)⊠ 7)□	 Claim(s) 1-42 is/are pending in the application. 4a) Of the above claim(s) 4-35 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-3 and 36-42 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement. 						
Applicati	on Papers						
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any objection Replacement drawing sheet(s) including the oath or declaration is objected to learn the oath of the oath oath oath oath oath oath oath oath	a) accepted or b) ion to the drawing(s) be the correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d	d).		
Priority u	inder 35 U.S.C. § 119						
12) a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of application from the International see the attached detailed Office action	ocuments have bee ocuments have bee f the priority docume al Bureau (PCT Rule	n received. n received in Application ents have been receive e 17.2(a)).	on No ed in this National Stage			
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTonation Disclosure Statement(s) (PTO-1449 or Prono(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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DETAILED ACTION

Claims 1-42 are pending. Claims 4-35 have been withdrawn.

Response to Arguments

Applicant's arguments with respect to claims 1-3 and 36-42 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 and 36-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Carter et al. (US 6,671,172). Carter discloses (figures 15-17 and column 11, lines 20-45) a heat sink comprising a core (223) having a central axis; a plurality of cooling fins (202) are curved toward a tangential component of airflow and wherein an upper portion (208) is bent toward the tangential component; each of the fins includes a vertical portion (207) and an angled portion (208) forming an angle approximately 150 degrees and wherein the angled portion of each of the fin is bent in the same direction.

Claims 1-3,36-38 and 40-42 are rejected under 35 U.S.C. 102(b) as being anticipated by Chiou (US 5,523,918). Chiou discloses (figures 1-2) a heat sink comprising a core (134) having a central axis; a plurality of cooling fins (3) arranged about the core, wherein the fins (3) are

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curved toward to capture a tangential component of airflow which may be generated by a fan (2) and wherein an upper portion of each of the curved fins is bent at each fold toward the tangential component (see figure A bellow); each of the fins includes a vertical portion (portion between top and bottom of the fin) and an angle portion (folded portion) forming an angle with the vertical portion and wherein the angled portion of each of the fins is bent in the same direction. (either clockwise or counterclockwise)

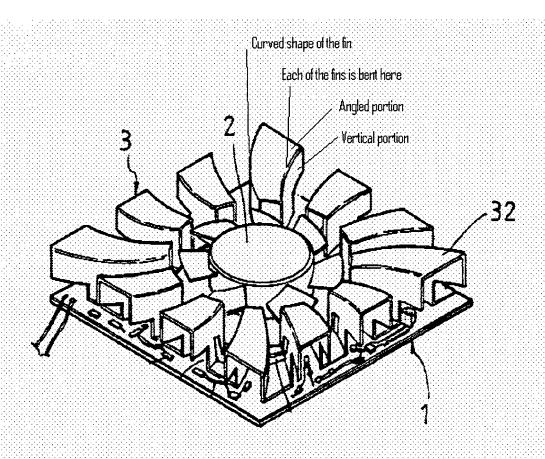


Figure A: The modified figure correspondes to figure 1 with claimed limitations shown.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dkoseru KK (JP 2000252662A) discloses a heat sink, which are formed by bending to form radiation fin curve.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Tho Duong whose telephone number is (703) 305-0768. The examiner can normally be reached on from 9:30-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennet, can be reached on (703) 308-0101. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

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April 12, 2004

Tho Duong

Patent Examiner.

Thramas